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December 1983

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209/900

ART-UNIT: 266

PRIMARY-EXAMINER: Boudreau; Leo H.

ASSISTANT-EXAMINER: Fox; David

ATTY-AGENT-FIRM: Hoel; John E.

ABSTRACT:

The invention is characterized as a data processing architecture and method for multi-stage processing of mail, using knowledge based techniques. The system includes OCR-scanning a multipart address field of a mail piece at a sending location, the address field including at least two portions, a first stage routing portion (destination city, state, country, zip code) and a second stage routing portion (destination street address, building floor, corporate addressee internal routing). At the sending location, the image of the entire address field is captured by an OCR head and stored in memory. A serial number is printed on the mail piece. The first routing portion is then converted into sorting signals to sort the mail piece to a truck at the sending location which is to be dispatched to the city, state and country indicated in the first stage routing portion. Then, while the mail piece is in transit by truck to the destination city, the image of the second stage routing portion is analyzed by a knowledge base processor to resolve street addresses, building floor, corporate addressee internal routing information and addressee name. The deferred execution of the analysis by the knowledge base processor is available because of the sporadic volume of mail pieces submitted to the system. While the mail piece is in transit on the truck, the knowledge processor completes its analysis and is able to transmit by electronic communications link to the destination location, the information that the mail piece is on its way and the second stage routing information needed to automatically sort and deliver the mail piece to its corporate addressee.

16 Claims, 18 Drawing figures

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☐ 1. Document ID: US 6555776 B2

L5: Entry 1 of 2

File: USPT

Apr 29, 2003

US-PAT-NO: 6555776

DOCUMENT-IDENTIFIER: US 6555776 B2

TITLE: Single feed one pass mixed mail sequencer

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------------|----------|-------|----------|---------|
| Roth; J. Edward | Lansdale | PA | | |
| Bundschuh; William D. | Lansdale | PA | | |

US-CL-CURRENT: [209/584](#); [198/418.4](#), [209/656](#), [209/900](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMMC | Draw. De |
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☐ 2. Document ID: US 5031223 A

L5: Entry 2 of 2

File: USPT

Jul 9, 1991

US-PAT-NO: 5031223

DOCUMENT-IDENTIFIER: US 5031223 A

TITLE: System and method for deferred processing of OCR scanned mail

DATE-ISSUED: July 9, 1991

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------|-------|----------|---------|
| Rosenbaum; Walter S. | Bethesda | MD | | |
| Hilliard; John J. | Potomac | MD | | |

US-CL-CURRENT: [382/101](#); [209/584](#), [209/900](#), [700/224](#), [700/227](#)

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMMC | Draw. De |
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L5: Entry 2 of 2

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| Rosenbaum; Walter S. | Bethesda | MD | | |
| Hilliard; John J. | Potomac | MD | | |

ASSIGNEE-INFORMATION:

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APPL-NO: 07/426617 [\[PALM\]](#)

DATE FILED: October 24, 1989

INT-CL: [05] G06K 9/20

US-CL-ISSUED: 382/1; 209/584, 209/900, 364/478

US-CL-CURRENT: [382/101](#); [209/584](#), [209/900](#), [700/224](#), [700/227](#)

FIELD-OF-SEARCH: 209/900, 209/584, 382/1, 364/478, 235/379

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|-------------------------|---------------|---------------|---------|
| <input type="checkbox"/> | 4632252 | December 1986 | Haroki et al. | 209/900 |
| <input type="checkbox"/> | 4832204 | May 1989 | Handy et al. | 364/478 |
| <input type="checkbox"/> | 4845761 | July 1989 | Cate et al. | 382/1 |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | CLASS |
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[Next Page](#)

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